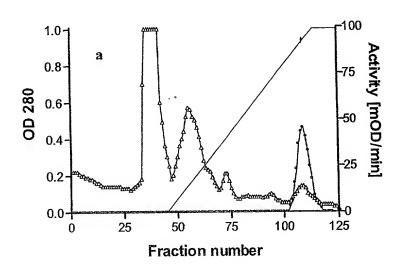
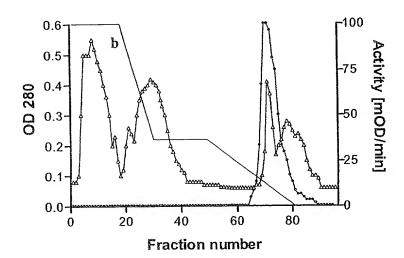
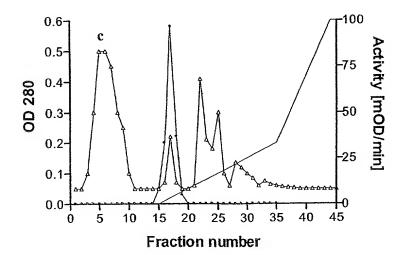
Fig. 1

LOCGSSS LICECT







Title: DIPEPTIDYLPEPTIDASES AND METHODS OF USE Applicant(s): Travis et al.

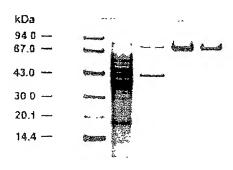
Filed: HEREWITH

Express Mail No.: EL888272705US

Docket: 235.0044 0101 Sheet 2 of 7

Fig. 2

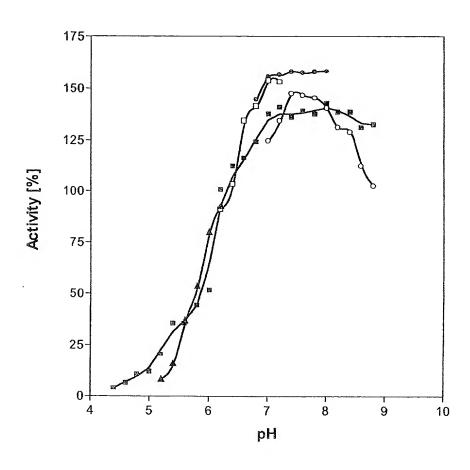
ISSUES IICHI



В С D E

Fig. 3

1006355 1102C1



Title: DIPEPTIDYLPEPTIDASES AND METHODS OF USE

Applicant(s): Travis et al. Filed: HEREWITH

Express Mail No.: EL888272705US

Docket: 235,0044 0101 Sheet 4 of 7

Fig. 4

 $\square \square$  in  $otin \square$  atgcaaatgaaattaaaaagtattetteteggageageeetgetgttgggtgetteaggggtageeaaageegaeaaaggeatgtggete 90 M Q M K L K S I L L G A A L L L G A S G V A K <u>A D K G M W</u> L STQ #D100:2 30 ctcaacgaactcaatcaggagaatctggatcgaatgcgtgagctcggctttacgctcccgttggattcgctctacagtttcgacaagccg 180 LNELNQENLDRMRELGFTLPLDSLYSFDKP 60 270 SIANAVVIFGGGCTGITVSDQGLIFTNHHC 90 ggatacggtgctatccagagccaaagcacggtggatcacgactatctgcgcgatggtttcgtttctcgcacgatgggtgaggagcttccgG Y G A I Q S Q S T V D H D Y L R D G F V S R T M G R E L P 120 I P G L S V K Y L R K I V K V T D K V B G Q L K G I T D E M 150 gagegtetgegeaaageteaggaggtatgeeaagaaetggeeaaaaaagaaaatgeagaegagaaceaaetetgeategtagageettte 540 ERLRKAQEVCQELAKKENADENQLCIVEPF 180 630 Y S N N E Y F L I V Y D V F K D V R M V F A P P S S V G K P 210 720 G G D T D N W M W P R H T G D F S V F R V Y A G A D N R P A gaatacagcaaggacaataaaccctataagcccgtttacttcgctgccgtatccatgcaaggctacaaggctgacgactatgccatgacc 810 EYSK<u>DNKPYK</u>PVYFAAVSMQGYKADDYAMT 270  ${\tt atcggtttcccgggcagtacggatcgctacctcacttcttggggtgtggaagatcgtatcgaaaacgagaacaatcctcgtatcgaagtt}$ 900 I G F P G S T D R Y L T S W G V E D R I E N E N N P R I E V 300  ${\tt cgcggtatcaagcaaggcatctggaaggaagccatgagcgcagatcaggctacccgtatcaaatatgccagcaagtatgctcagagtgct}$ 990 R G I K Q G I W K E A M S A D Q A T R I K Y A S K Y A Q S A 330 1080 N Y W K N S I G M N R G L A R L D V I G R K R A B B R A F A 360 1170 DWIRKNGKSAVYGDVLSSLEKAYKEGAKAN cgtgagatgacttatttgagcgagacgctcttcggtggtaccgaggtggttcgttttgcacagtttgccaacgcattggctacaaatcct 1260 R E M T Y L S E T L F G G T E V V R F A Q F A N A L A T N P 420 D A H A G I L K S L D D K Y K D Y L P S L D R K <u>V L P A</u> M L 450 gatattgtacgccggcgtatccctgccgacaagctccccgatatattcaagaatgtaatcgacaagaaattcaaaggcgacacgaagaag 1440 DIVRRRIPADKLPDIPKNVIDKKFKGD<sub>TK</sub> 480 tatg cag act to gtat to gacaag ag tg tg gt to cettat ag egacaag tt coatg coatg coatg gacaag gacaag gacaag tt tg coatg coatg coatg coatg gacaag gacaag gacaag tt tg coatg coaY A D F V F D K S V V P Y S D K F H A M L K S M D K E K F A 510 K A I E K D P A V E L S K S V I A A A R A I Q A D A M A N A tatgccattgagaagggcaagcgtcttttctttgccggtttgcgtgagatgtaccccggacgtgctctgccgagcgatgccaacttcacc 1710 Y A I E K G K R <u>L F F A G L</u> R E M Y P G R A L P S D A N F T 570  ${\tt atgcgtatgagctacggctccatcaagggatatgaaccgcaggacggtgcctggtacaactatcatacgacaggcaagggcgtattggag}$ 1800 M R M S Y G S I K G Y E P Q D G A W Y N Y H T T G K G V L E 600 aagcaggatcctaagagcgatgagtttgccgtacaggagaatatcctcgacctcttccgcaccaaaaactatggtcgctatgccgagaac 1890 R Q D P K S D E F A V Q E N I L D L F R T K N Y G R Y A E N 630  ${\tt ggtcagctccatatcgctttcctatcgaacaacgacatcacgggcggtaactccggtagccccgtattcgataagaacggccgtctgatc}$ 1980 G Q L H I A F L S N N D I T G G N S G S P V F D K N G R L I 660 ggtcttgctttcgatggcaactgggaagctatgagtggtgacatcgagttcgaacccgatctgcagcgcacaatcagcgtggacatccgc2070 G L A F D G N W E A M S G D I E F E P D L Q R T I S V D I R 690 tacgttctcttcatgattgacaaatggggtcagtgccccgtctcatccaagagctgaagttgatctaa 2139 YVLFMIDKWGQCPRLIQELKLI\*

713

GRATIS NO.3 DPP-7

644

Docket, 235,0044 0101 Sheet 5 of 7

SELED NO:4 V-8

704

TGGNSGSPVF++ +IG+ + G +G + +++ + +I + F
TGGNSGSPVFNEKNEVIGIHWGGVPNEFNGAVFINENVRNFLKQNIEDIHFA863

TGGNSGSPVFDKNGRLIGLAFDGNWEAMSGDIEFEPDLQRTISVDIRYVLFM 695

Title: DIPEPTIDYLPEPTIDASES AND METHODS OF USE Filed: HEREWITH

Pipel HEREWITH

Pipel Mail No.: EL888272705US

MASQALGFIHONGINTWKKWIDSVAWAASFASHADEGMWOPHOLP-AWADVIKAKGIETDAKSHSKITEFPMNAWUSI	GGCTASEVSPKGIVVTNHHCAYGSIQYNSTPEKNLIQDGFTAKFFADELPAAFGSRVYVTEDWTNVTERVKAGIENKTG- GYCTASEVSPQGLVYTNHHCAYKAIQYNTKKEHNYIEQGFIATSMDKEPSAGPNERLYTTEAVTDVTSDVTKDLSQDP GNCTASIVSPEGIVITNHHCAYGAIQINSTPKKNITKEGFNALTOADEVSAGPNARLYYNEQITDVTAQAKAALATAAAND GGCTGITVSDQGIJIETNHHCGYGAIQSQSTVDHDYLRDGGFVSRTAG-BELPIBGLSVKYTRKHVKVTEGOLKGITD- GGCTGEVVSDRGIVTTNHHCGYDMIQAHSTLEHNYLENGFWAMREA-DELPNKDISVVFTDKIEDVTDYVKKDLKAIKDP	refyqcybnoekalvabobkncovysbhcclbyklykolbirdyklyynpacsyckyccdyndrhynprhtympacsyckyccdydnwmwprhtlkryeetbnkkalikscbaddnyrcnvrsbhnclbyllkolmirdyrlyyappesyccyccoldnybyrhsbfkrttatibtfskoetakcebbockcoffsbaccoffsbachetknlbirdyrnyapqcsyckfgcdydnwmwprhtbekrttatibtrkacelakkenadbrolcivebbysnneybtivydyrkygappssyckfgcdtdnwmwprht nsmdylspkylokladkkachalbenclenkbreknagelsycethkafyrdyrlygapptsigkfgadfdnwiwprht	CDYSEYRAYVSKYCKPAEFSADNYPYEPKSFLKVSAKGVSECDEVMYAGYPCRTNRYRTATEVONEFEWAYPEGKMITRER CDFAFTRAYVGKDGKPAAFSEDN LPYTPKSYLKVNADGYKAGDCVEVECTTNRYNLTSELKFASDWLYPTQAKRYQL GDFSFYRAYVGKDGKPASFSKENIPYRPKHWIKESDQPLGBGDFVMVAGYPGRTNRYALVAEFENTAHWTYPVIGQHFKN CDFSVERVYAGGADNRPAEYSKDNKPYKPVYBAAVSMQGYKADDYAMTICEPGSTDRYLTSWGVEDRIENBNNPRIEVRGI CDFSIERTYADKNGNPAPYSEDNXPLKPKRFFNTSLGGVQENDYAMTMGRPGTHRYFTASETVBEWKSIDNDIRIRWRDI	etettkatapegsderikyesolaghanyaknetsmieengkstmiadrkaljeaktaemiakdssreakygktlaeh Otdtteamgokdadiatkyagnmasmanmikklinglijagekatdinygikogrendfiamitknpnlionilisef Ltanteaaskonpdioxkyasthagennitsknedgoldgerrina gokoseetavmamikogelrghealaahote Kogtmkeamsadoatrikyaskyagosanymknsignneglaridovigrkraeerafdmirkngksavygdvissle Rogwiremaadpotkimysakyaasonaykraiganmatktropromodrimamgakogetryeeavhe	DALIAKSKAHQERDMITSYISSHIMITPTANNINYRITAHEKOLPDMOREPGEODRDMTRFKASWERIDRRYAASVOKAVLED EVILAEQQLOTOTNIYFTNAQSSHIMITAANNINYRITAKEKOKSDAEREIGYOBRDMAMFSSRIKKRIIDSSEDVKVOKTITMUQ VOLTEQYKANODRDEVIGOENGSGVIGVANNINYRITAIERTKSDAOREAGYOBRDMETIEGNIKOMERRYLPEMDROVQOY KAYKEGAKANREMIYITSETLEGGTEVVVRFAOFANALAINPDAHAGIIKSIDDRYKDYLPSIDRKKYLPAMIDIVRRRIPPAD IDATVAKRADLRRRYWWIEEGIIRGHEFARSPIPTEDETKALQGNOASMRKEAIDKKRITRYSKFANKOYSAEVOKKVAVA	mikrmaaideaoridpamdkafeidnkvneaklaktiddkmyakheidcnkdvrlammeksvddiekaskddetioeavamkotn dinayilsopnrvaahdnminindknvslaakidgiysitititdoaoriammeaeakafetsidiavalkkotn
∑।।।। निनन्नन	78 662 66 67 67 67 67	00000			88 DZ 68 EZ 78 VI 81 KZ 80 II	68 48 D
	70070	4444 84444	231 214 221 224 226	311 301 304 306	99798	44
8 X X X X X X X X X X X X X X X X X X X	2 8. X 4 4 4 2 4 4	\$2 \$2 \$2 \$2 \$2	8 X X X X X X X X X X X X X X X X X X X	8 X X X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	82 X X X X X X X X X X X X X X X X X X X	s1 s2
NOV80						

Docket: 235.0044 0101

Title: DIPEPTIDYLPEPTIDASES AND METHODS OF USE Filed: HEREWITH

Express Mail No.: EL888272705US

witigynkipvkorvanedvwiedgidatil-krigdikiissiäerikwenmersSodpairkanmal Kupdifknvidkkekedikkyndevedksvvpysdkehamiksmekaiekdpaveisksyiaaa Metevikeipyeniplihisivkkorfagdvoayvddifarswegaqofdafaävpsvekizedemiliaasvede	WSEBKKEKELDGELMKVRROYMDAFTANILEOGKPVYADANSSLRVTVGHVKGYSPKDGEVAVPETRLEGTVOKDTG-TD MAOBKAEKILAGKLSTARRAYMAAVIDYYKANNWPVYPDANGTERRISYGMVDGYQSRDALYKOPFTRLDGIVAKHTG-VE LETBRONKIRTGELHKARPIYLQALADYNKSHGKFVYPDANSSLRTTRCHVKGYSPKDGVEYTPFTTLOGVVAKNTG-VE RAIGADAMANAYATEKGKRLFFAGIREMYPGRAUPSDANFTWRMSYGSHKGYEROOGAWYNYHTTGKGVTRKODPKSD RKIYNELRPYDDFILKRQRTYHAGLIEMDGDQDQFFDANITTRFTYGQVKGYSPRDNVYYGHQTTLDGVVEKEDPDNW	PEDAPKOLIEHTKOKOYGDEYMKSUDS	DGVWBSTIGGWAFDNEINRSTHVDSRYMLWYMKYLDHADNITARVEHVN- DSTYBATTWOWFDNPTITRAVHVDIRYLIMWMDEVDHADNITRBFDLAVRN DGNWBSVSSNWVFDPVMTRHIAVDSRYVQWIMTEVAPAPHILRBFINFYR- DGNWBAWSGDIEBFPDLORHISVDIRYVBFMTDKWDRNWBAWSGDIOYTAPDIQKHIDBFWGGCORLIDBFWHWP-
458 461 460	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	627 603 609 608 614	686 683 668 665
X 4 4 4 2 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4	82 X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	. 88 X 24 44 45 45 45 45 45 45 45 45 45 45 45 45	8 8 X 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4